

CLAIMS

We claim:

- 5 1) A child containment, communication and locating system utilizing the wire defining the periphery of a pet containment area comprising at least one child monitoring module worn by the child whose movement is to be monitored, said at least one child monitoring module including means for receiving the signal applied to the wire defining the periphery of the pet
- 10 containment area and including a transceiver device, and a unit to control the operation of the system, said control unit including a transceiver device;
- 15 2) The system as defined in claim 1 wherein said transceiver device in said at least one child monitoring module has the capability of communicating with said transceiver device in said control unit and said transceiver device in said control unit has the capability of communicating with said transceiver device in said at least one child monitoring module.
- 20 3) The system as defined in claim 2 wherein said transceiver device in said at least one child monitoring module communicates with said transceiver device within said control unit via a radio frequency band and said transceiver device in said control unit communicates with said transceiver device in said at least one child monitoring module via said
- 25 radio frequency band.
- 30 4) The system as defined in claim 1 wherein said at least one child monitoring module includes means for detecting a signal on the wire defining the periphery of the pet containment area.

- 5) The system as defined in claim 4 wherein the detection of a signal on the wire defining the periphery of the pet containment area by said detecting means causes said at least one child monitoring module to communicate with said control unit via said transceiver device in said at least one child monitoring module and said transceiver device in said control unit.
- 6) The system as defined in claim 1 further including at least one repeater device which receives and retransmits signals from said at least one child monitoring module to extend the transmission and reception range of said at least one child monitoring module.
- 7) The system as defined in claim 1 further including an auxiliary power unit to increase the level of said signals to and from said at least one child monitoring module.
- 8) The system as defined in claim 1 further including means to determine the direction of travel of the child wearing said at least one child monitoring module after the child has crossed the wire defining the periphery of the pet containment area.
- 9) The system as defined in claim 1 further including means for determining the distance of the child from said control unit after the child wearing said at least one child monitoring module has crossed the wire defining the periphery of the pet containment area.
- 10) The system as defined in claim 1 wherein said at least one child monitoring module includes means for detecting when said at least one child monitoring module is stationary indicating that said at least one child monitoring module has been removed by the child whose movements are being monitored.

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- 11) The system as defined in claim 1 wherein said at least one child monitoring module includes means for transmitting a message from the child to said control unit.
- 12) The system as defined in claim 1 wherein said at least one child monitoring module includes means for receiving a message from said control unit.
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- 13) The system as defined in claim 1 wherein said control unit includes means for transmitting a message to said at least one child monitoring module.
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- 14) The system as defined in claim 1 wherein said control unit includes means for receiving a message from said at least one child monitoring module.
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- 15) The system as defined in claim 5 wherein said auxiliary power unit includes means for transmitting a message to said at least one child monitoring module.
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- 16) The system as defined in claim 5 wherein said auxiliary power unit includes means for receiving a message from said at least one child monitoring module.